

In the Claims

1-61 (canceled).

62 (currently amended). An antibody that induces superagonistic signaling by a cell surface receptor, wherein said antibody binds to the extracellular portion of the human PD-1 receptor at a membrane proximal region and said antibody binds to an epitope comprising SEQ ID NO: 44, SEQ ID NO: 46, SEQ ID NO: 48, SEQ ID NO: 50, SEQ ID NO: 52, SEQ ID NO: 54, SEQ ID NO: 56 or SEQ ID NO: 61 receptor comprises a cytoplasmic domain which is dependent on an extrinsic protein kinase, wherein said antibody does not bind only the human PD-1 equivalent of the C'-D loop of human CD28.

63-65 (canceled).

66 (currently amended). The antibody according to claim 62, wherein said antibody binds to an epitope comprising ~~SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 39, SEQ ID NO: 40, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, SEQ ID NO: 48, SEQ ID NO: 49, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, SEQ ID NO: 54, SEQ ID NO: 55, SEQ ID NO: 56, SEQ ID NO: 57, SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 60 or SEQ ID NO: 61~~ SEQ ID NO: 44.

67 (new). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 46.

68 (new). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 48.

69 (new). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 50.

70 (new). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 52.

71 (new). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 54.

72 (new). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 56.

73 (new). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 61.